

# CLEVERCOAT™ PU 650 TC 1K

## ONE COMPONENT POLYURETHANE BASED, ELASTIC, COLORED, ALIPHATIC TOP COAT

### DESCRIPTION:

CLEVERCOAT™ PU 650 TC 1K is a one component, PU based, aliphatic top coat with high UV resistance. It is an elastic top coat material for PU waterproofing membranes. It cures with the humidity in the air and creates a seamless flexible and colorful film layer. Thanks to its aliphatic structure, it preserves its color when exposed to sunlight, does not fade or turn yellow.

### TYPICAL APPLICATIONS:

- ✓ Areas exposed to pedestrian traffic
- ✓ Stadiums
- ✓ Indoor and outdoor car parks
- ✓ As an elastic finishing material for polyurethane waterproofing
- ✓ Industrial floors
- ✓ On building materials such as wood, stone, marble or brick
- ✓ Indoor and outdoor applications
- ✓ Terraces, verandas and balconies
- ✓ Roofs exposed to UV
- ✓ Surfaces requiring high wear resistance

### FEATURES AND ADVENTAGES:

- ✓ Easy to apply (by brush, roller or spray)
- ✓ Has UV resistance.
- ✓ Thanks to its aliphatic structure, it preserves its color when exposed to sunlight, does not fade or turn yellow.
- ✓ When applied, it provides a one-piece film layer that does not cause joint or leakage.
- ✓ It provides excellent adhesion and adhesion to the surface.
- ✓ It is resistant to continuous water contact.
- ✓ It preserves its mechanical properties between -40°C and +90°C.
- ✓ It has excellent chemical resistance.
- ✓ It has excellent mechanical properties, tear and tensile strength.

### CONCRETE SUBSTRATE STANDARTS:

- ✓ Hardness R28 : 15 Mpa
- ✓ Humidity : W < 10%
- ✓ Temperature : +5°C and +30°C
- ✓ Relative Humidity : < 85%

For detailed information, please consult our technical department.

### APPLICATION PROCEDURE:

#### SURFACE PREPARATION:

Before the application, the factors such as oil, grease, paraffin wastes, cement grout, loose particles, mold release areas, cured old membranes that weakens the adhesion should be removed from the surface. After washing the surface with high pressure water, it should be dried. Surface defects and cracks should be repaired with suitable products.

#### PRIMING:

CLEVERPRIME™ PU PRIMER 200 should be used for absorbent surfaces such as concrete, cement or screed. It can be applied with a brush. There is no need for a primer as a top coat in Polyurethane and Polyurea applications.

#### APPLICATION:

Before use, open the package and mix it with a low speed mixer for 2-3 minutes. While mixing the product, care should be taken not to mix air into the material at a high rate. If air is mixed into the material, visible air bubbles will occur after the material is cured on the floor. The material is poured over the primed surface and spread over the entire surface with the help of a roller or brush.

### APPLICATION REMARKS:

- ✓ Not recommended for unstable surfaces.
- ✓ It is not used for waterproofing of swimming pools with chemically treated waters.
- ✓ If polyurethane insulation materials are to be coated, recoat time should be passed.

### CONSUMPTION:

For each layers minimum: 0,10 - 0,15 kg/m<sup>2</sup>

### CLEANING:

After the application, all tools used should be cleaned with the appropriate Solvent 01. Roller brushes are disposable. They are only for single use.

### PACKAGING AND COLOR:

White and gray in 4 kg and 20 kg metal buckets.

### STORAGE AND SHELF LIFE:

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between +5°C and +25°C. Opened product should be used as soon as possible.

**PRECAUTIONS:**

The product should be used in well ventilated environments. The product should not be in contact with open fire. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the

material comes into contact with eyes, it should be washed immediately with sufficient water. Adequate ventilation is required during application. For more detailed information, ask for Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

**TECHNICAL DATA:**

QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	One component Aliphatic Polyurethane
Density	ASTM D 1475 / EN ISO 2811-1 (+20C)	1,15 gr / cm <sup>3</sup> (± 0,05)
Viscosity	ASTM D 2196-86 / EN ISO 3219 (+25C)	300 - 600 cp
Water Vapor Permeability	EN ISO 7789	0,8 gr / m <sup>2</sup> hour
Glossy	Clever Lab.	Semi Gloss
Application Temperature	Clever Lab.	+ 5 ° C to + 30 ° C
Heat Resistance	Clever Lab.	100 days at + 80 ° C
Shock Heat Resistance	Clever Lab.	200 ° C
Solid Content	Clever Lab.	70% (± 5)
Hardness	ASTM D2240, DIN 53505, EN ISO R868	40 (Shore D)
Elongation at Break	ASTM D 412 (+23 ° C)	> 100%
Tensile Strength	ASTM D 412 (+23 ° C)	> 5 N / mm <sup>2</sup>
Adhesion to Concrete	TSE EN 1542 (+23 ° C)	> 2 N / mm <sup>2</sup>
QUV	ASTM G154	2000 hours
Service Temperature	Clever Lab.	-40 to + 90°C
Tack Free Time	25 ° C / 55% RH	6 to 8 hours
Recoat Time	Clever Lab.	24 hours

\* Viscosity measured at + 25 ° C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

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